

			U.S. PATENT DO	CUMENTS+	
		Document Number			
	Cite No.1	Number Kind Code ² (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Unes, Where Relevant Passages or Relevant Figures Appear
an	A1	US-6,440,735 B1	08-27-2002	Gaeta	\
	A2	US-6,444,650 B1	09-03-2003	Cech et al.	
	A3	US-6,517,834 B1	02-11-2003	Weinrich et al.	
	A4	US-6,608,188 B1	08-19-2003	Tsuchiya et al.	
	A5	US-6,627,619 B2	09-30-2003	Cech et al.	
	A6	US 2002-0164786 A1	11-07-2002	Cech et al.	
	A7	US 2002-0187471 A1	12-12-2002	Cech et al.	X
	A8	US 2003-0009019 A1	01-09-2003	Cech et al.	
	A9	US 2003-0032075 A1	02-13-2003	Cech et al.	
	A10	US 2003-0044953 A1	03-06-2003	Cech et al.	
	A11	US 2003-0059787 A1	03-27-2003	Cech et al.	
- [A12	US 2003-0096344 A1	05-22-2003	Cech et al.	
	A13	US 2003-0100093 A1	05-29-2003	Cech et al.	
	A14	U.S. Application No. 09/432,503		Gech et al.	
	A15	-U.S. Application No. 09/721,477		Cech et al.	
	24.16	U:S. Application No. 09/721,506		Cech et el.	

•				FOREIGN PA	TENT DOCUME	NTS		
Examiner Cite		Foreign Patent Document		Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant		
Initials*	No.1	Country Code ³	Number ⁴	Kind Code ⁶ (if known)	MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	Τ*
7	7 B1	CA	2271718	A1	05-22-1998			
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Complete if Known			
Application Number	08/974,584		
Filing Date	November 19, 1997		
First Named Inventor	Cech, Thomas R.		
Art Unit	1634		
Examiner Name	Myers, Carla J.		
Attorney Docket Number	015389-002950US		

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Sheet	2		of	2

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
Cr	C1	ADAMS, MARK et al. "Initial Assessment of Human Gene Diversity and Expression Patterns Based Upon 83 Million Nucleotides of cDNA Sequence" <i>The Genome Directory: Supplement to Nature 28 September 1995</i> , 1995, pp. 3-174, Vol. 377, Issue 6547S.	- T
	C2		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

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U.S. PATENT DOCUMENTS+					
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()	A1	US-5,597,697	01-28-1997	Diamond	
$\overline{}$	\ A2	US-5,747,317	05-05-1998	Cao	
1	A3	US-5,770,422	06-23-1998	Collins	
	A4	US-5,917,025	06-29-1999	Collins	
	A5	US-5,919,656	07-06-1999	Harrington, et al.	
	A6	US-6,166,178	12-26-2000	Cech et al.	
	A7	US-6,337,200 B1	01-08-2002	Morin	
	A8	US-6,475,789 B1	11-05-2002	Cech et al.	
	A9	US-6,610,839 B1	08-26-2003	Cech et al.	
	A10	US-6,617,110 B1	09-09-2003	Cech et al.	

					FOREIGN PA	TENT DOCUME	NTS	- · · · · · · · · · · · · · · · · · · ·	
Examiner Initials*		Cite	Cite No.1		Publication Date	Name of Patentee or Applicant of Cited	Pages, Columns, Lines, Where Relevant		
	Titudio 140.		Country Code ³	Number⁴	Kind Code* (if known)	MM-DD-YYYY	Document	Passages or Relevant Figures Appear	T ₀
-	1	B1	GB	2 317 891	Α	04-08-1998	,		
\bot		B2	PCT	WO 93/235	72 A1	11-25-1993			
		В3	PCT	WO 94/172	10 A1	08-04-1994			
		B4	PCT	WO 95/1338	82 A1	05-18-1995			
		B5	PCT	WO 96/018	35 A1	01-25-1996			
		B6	PCT	WO 98/0783	38 A1	02-26-1998		see abstract	
		B7	PCT	WO 98/0893	38A1	03-05-1998		see abstract	
		B8	PCT	WO 98/1459	92 A2	04-09-1998			
		89	PCT	WO 98/1459	93 A2	04-09-1998			
	\perp	B10	PCT	WO 98/2134	43 A1	05-22-1998			
		B11	PCT	WO 98/2375	59 A2	06-04-1998			
	oxdot	B12	PCT	WQ 98/3718	31 A2	08-27-1998			
	Ш	B13	PCT	WO 98/4545	50 A1	10-15-1998			
		B14	PCT	WO 98/5904	10 A2	12-30-1998			
		B15	PCT	WQ 99/0156	30 A1	01-14-1999			
		B16	PCT	WO 99/3399	98 A2	07-08-1999			
		B17	PCT	WO 99/3896	64 A2	08-05-1999			
<u> </u>	u	B18	PCT	WO 00/4635	55 A2	08-10-2000			

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of 5

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Art Unit	1634		
Examiner Name	Myers, Carla J.		
Attorney Docket Number	015389-002950US		

		NON PATENT LITERATURE DOCUMENTS	
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Cr	C1	ADAMSON, D. et al. "Significant Telomere Shortening in Childhood Leukemia", Cancer Genet. Cytogenet, 1992; pp. 204-206, Vol. 61	
	C2	AUTEXIER, CHANTAL, et al., "Telomerase and cancer: revisiting the telomere hypothesis; Trends in Biochemical Sciences, 1996, pp. 387-391, Vol. 10, No. 21.	
	СЗ	AVILION, A., "Characterization and expression of human telomerase," Dissertation Abstracts International", 1996, pp. 5930-B, Vol. 56, No. 11	
	C4	BARINGA, MARCIA, "The Telomerase Picture Fills In", Science, April 25, 1997; pp. 528-529, Vol. 276	
	C5	CHIU, et al. "Replicative senescence and cell immortality: the role of telomeres and telomerase (44075)", <i>Proc. Soc. Exp. Bio. Med.</i> , 1997, pp. 99-106, Vol. 214.	
	C6	CHONG, L. et al. "A Human Telomeric Protein", Science, Dec. 1995, pp. 1663-1667, Vol. 270.	
	C 7	COLLINS, KATHLEEN, "Structure and function of telomerase", Current Opinion in Cell Biology, 1996, pp. 374-380, Vol. 8	
	C8	COUNTER, C. et al. "Telomerase activity in human ovarian carcinoma"; <i>Proc. Natl. Acad. Sci USA</i> ; April 1994; Vol. 91; pp. 2900-2904	
	C9	COUNTER, C. et al. "Telomerase Activity in Normal Leukocytes and in Hematologic Malignancies" Blood; May 1, 1995; pp. 2315-2320, Vol. 85, No. 9.	
	C10	COUNTER, C. et al. "Telomere shortening associated with chromosome instability is arrested in immortal cells which express telomerase activity", <i>The EMBO Journal</i> ; 1992, pp. 1921-1929, Vol. 11; No. 5, Oxford University Press.	
	C11	DE LANGE, T. et al. "Structure and Variability of Human Chromosome Ends"; Molecular and Cellular Biology; February 1990; pp. 518-527, Vol. 10, No. 2.	
	C12	FENG et al., "The RNA Componant of Human Telomerase," Science, 1995, pp. 1236-1241, Vol. 269	
	C13	FLAVELL, R. & MATHIAS, R. "Prospects for transforming monocot crop plants", <i>Nature</i> , 12 Jan. 1984, pp. 108-109, Vol. 307.	
	C14	FRESHNEY, <u>Culture of Animal Cells, A Manual Basic Technique</u> , p. 4, Alan R. Liss, Inc. New York, 1983.	
	C15	Genbank Accession No. A46242; September 21, 1993	
	C16	Genbank Accession No. AA299878; April 18, 1997	

Exami Signat		nex	Date Considere	red 8/24/03

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Sheet 3 of 5

Complete if Known			
Application Number	08/974,584		
Filing Date	November 19, 1997		
First Named Inventor		_	
Art Unit	1634	_	
Examiner Name	Myers, Carla J.		
Attorney Docket Number	015389-002950US		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т,
J4	C17	Genbank Accession No. AA311750; April 19, 1997	
	C18	Genbank Accession No. L38903; January 30, 1995	
	C19	Genbank Accession No. Q06163; November 01, 1995	
	C20	Genbank Accession No. S39696; October 07, 1994	
	C21	Genbank Accession No. S53396; May 5, 1995	
	C22	GenBank Accession No. W70315; June 19, 1996	
	C23	GLASER, P. et al. "Bacillus subtilis genome project: cloning and sequencing of the 97 kb region from 325" to 333" Molecular Microbiology, 1993, pp. 371-384, Vol. 10, No. 2.	
	C24	GOODMAN, R. et al. "Gene Transfer in Crop Improvement", Science, 3 April 1997, pp. 48-54, Vol. 236.	
	C25	GREIDER, C. "Telomeres, Telomerase and Senescence"; <i>BioEssays</i> ; 1990; pp. 363-369, Vol. 12, No. 8.	
	C26	HARLEY, C. "Telomere loss: Mitotic clock or genetic time bomb?" <i>Mutation Research</i> ; 1991; pp. 271-282, Vol. 256, Elsevier Science Publishers.	
	C27	HARLEY, C. & VILLEPONTEAU, B. "Telomeres and telomerase in aging and cancer" Current Opinion in Genetics and Development; 1995, pp. 249-255, Vol. 5.	
	C28	HARLEY, C. et al. "Telomeres shorten during ageing of human fibroblasts", <i>Nature</i> , 31 May 1990; pp. 458-460, Vol. 345.	
	C29	HASTIE, N. et al. "Telomere reduction in human colorectal carcinoma and with ageing", Nature, 30 August 1990, pp. 866-868, Vol. 346.	
	C30	HEALY, K. C. "Telomere dynamics and telomerase activation in tumor progression: prospects for prognosis and therapy" <i>Oncol. Res.</i> , 1995, pp. 121-130, Vol. 7	
	C31	HENDERSON, C. Cancer genetics gene regulates telomerase resulting in death of cancer cells; Gene Therapy Weekly, 11 September 1995.	
	C32	HIYAMA, E. et. al. "Correlating telomerase activity levels with human neuroblastoma outcomes"; Nature Medicine; 3 March 1995; pp. 249-255, Vol. 1, No. 3.	
	C33	HOLTZMANN, K. et al. "Telomeric Associations and Loss of Telomeric DNA Repeats In Renal Tumors", Genes, Chromosomes & Cancer, 1993, pp. 178-181, Vol. 6.	

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Exami Signat	 Compris	Date Considered	8/24/83	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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CH	C34	JÄHNE, A. et al. "Genetic Engineering of Cereal Crop Plants: A Review", Euphytica, 1995, pp. 35-44, Vol. 85, Kluwer Academic Publishers, Netherlands.	
	C35	JOHNSON, P. et al., "Expression of Wild-Type p53 Is Not Compatible with Continued Growth of p53- Negative Tumor Cells", <i>Molecular and Cellular Biology</i> , Jan. 1991, p. 1-11, Vol. 11, No. 1.	
	C36	JOLLIFFE, L.K. "Humanized antibodies: enhancing therapeutic utility through antibody engineering", Int. Rev. Immunol., 1993, pp. 241-250, Vol. 10	
	C37	KIM, N. et al. "Specific Association of Human Telomerase Activity with Immortal Cells and Cancer", Science, 23 December 1994, pp. 2011-2014, Vol. 266.	
	C38	KLINGELHUTZ, A. et al. "Restoration of Telomeres in Human Papillomavirus- Immortalized Human Anogenital Epithelial Cells"; Molecular and Cellular Biology, Feb. 1994, pp. 961-969, Vol. 14, No. 2.	
	C39	LEWIS, A. & CROWE, J.S. "Generation of humanized monoclonal antibodies by 'best fit' framework selection and recombinant polymerase chain reaction", Year Immunol., 1993, pp. 110-118, Vol. 7	
	C40	Linking telomerase and tumors; Genesis Report- Dx; 1995; Vol. 4, No. 6; Publisher Genesis Group Associates.	
	C41	LUNDBLAD, V. & BLACKBURN, E., Letter to the Editor entitled, "RNA-Dependent Polymerase Molifs in EST1: Tentative Identification of a Protein Component of an Essential Yeast Telomerase", Cell, 23 Feb. 1990, pp. 529-530, Vol. 60.	
	C42	LUSTIG, ARTHUR J., "The identification of telomerase subunits: catalysing telomere research", Trends in Cell Biology; August 1997, pp. 299-302, Vol. 7.	
	C43	MALICKI, J. et al. "A human <i>HOX4B</i> regulatory element provides head-specific expression in <i>Drosophila</i> embryos", Nature, 23 July 1992, pp. 345-357, Vol. 358.	
	C44	NAKAYAMA, J. et al. "Cloning of a Candidate cDNA Encoding a Proteinaceous Component of Mammalian Telomerase", <i>Molecular Biology Cell Abstracts Supp. 7</i> , 1996, p. 875-884, 286a Section 1664.	-
	C45	NATARAJAN et al. "Major histocompatibility complex determinants select T-cell receptor alpha chain variable region dominance in a peptide-specific response." <i>Proc. Natl. Acad. Sci.</i> , Oct 1992, pp. 8874-8878, Vol. 19.	
	C46	PASZKOWSKI, JERZY et al. "Direct gene transfer to plants," The EMBO Journal, 1984, pp. 2717-2722, Vol. 3, No. 12.	
	C47	POTRYKUS, I. et al. "Direct gene transfer to cells of a graminaceous monocot", Mol. Gen. Genet., 1985, pp. 183-188, Vol. 199.	
	C48	RAYMOND, E., et al.; Agents that target telomerase and telomeres; Curr. Opin. Biotechnol.; 1996; 7:583-91	

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Sheet 5 of 5

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	C49	RHYU, M.S. "Telomeres, telomerase, and immortality"; J. Natl. Cancer Inst.; 21 June 1995; pp. 884-894, Vol. 87, No. 12.	
	C50	SCHENA et al. "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes", <i>Proc. Natl. Acad. Sci.</i> , Oct. 1996, pp. 10614-10619, Vol. 93, USA.	
	C51	SCHWARTZ, H. et al. "Telomere Reduction in Giant Cell Tumor of Bone and with Aging"; Cancer Genet Cytogenet; 1993; pp. 132-138, Vol. 71, Elsevier Science Publishing Co., Inc., New York, U.S.A.	
	C52	SINGER, M. "Unusual Reverse Transcriptases", Journal of Biological Chemistry; 1995, pp. 24623-23626, Vol. 270, No. 42	
	C53	SMITH, J. & YEH, G. "Telomere Reduction in Endometrial Adenocarcinoma"; Am. J. Obstet. Gynecol.; Dec. 1992; pp. 1883-1887, Vol. 167, No. 6	
	C54	TAIT, J. et al. "Structure and Polymorphisms of the Human Annexin III (ANX3) Gene*, Genomics, 1993, pp. 79-86, Vol. 18, No. 1	
	C55	WINTER, G. & HARRIS, W. "Humanized Antibodies", Trends Pharmacol. Sci., May 1993, pp. 139-143, Vol. 14.	
	C56	WIRTH, URS et al; "Immediate-Early RNA 2.9 and Early RNA 2.6 of Bovine Herpesvirus 1 Are 3' Coterminal and Encode of Putative Zinc Finger Transactivator Protein"; <i>Journal of Virology</i> ; May 1992; pp. 2763-2772, Vol. 66, No. 5.	
	C57	ZAUG, ARTHUR et al., "Method for determining RNA 3' ends and application to human telomerase RNA", Nucleic Acids Research, 1996, pp. 532-533, Vol. 24, No. 3.	

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